



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460-0001

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 24, 2015

SENT BY E-MAIL

Mr. Benjamin Baker  
Agent for CTX Cenol Corporation  
1393 East Highland Road  
Twinsburg, OH 44087

Subject: Amended Label for Cenol 0.25% Multipurpose Insecticide  
EPA Reg. No. 45385-98

Dear Mr. Baker:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the reregistration of the referenced product in connection with the permethrin RED(s), and has concluded that your submission is acceptable.

PLEASE NOTE: This product is not being reregistered under sections 3(c)5 and 4(g) of FIFRA at this time.

A copy of your label stamped "Acceptable" is enclosed along with copies of the acute toxicity and product chemistry reviews completed for the subject product. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

If you have any questions about this letter, please contact Linda A. DeLuise at (703) 305-5428 or via e-mail at [deluise.linda@epa.gov](mailto:deluise.linda@epa.gov).

Sincerely,

Richard Gebken  
Product Manager 10  
Invertebrate & Vertebrate Branch 2  
Office of Pesticide Programs

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# CENOL 0.25% Multipurpose Insecticide

- FOR USE INDOORS and OUTDOORS
- KILLS AND REPELS MOSQUITOES AND TICKS
- FOR TREATMENT OF CLOTHING, TENTS, CAMPING GEAR AND [MOSQUITO NETTING], NETS, OUTSIDE OF SLEEPING BAGS, BACKPACKS, GROUND CLOTHS AND LUGGAGE
- FOR LIVESTOCK AND PREMISE USE
- READY-TO-USE
- FOR CONTROL OF HOUSEHOLD PESTS
- FOR CONTROL OF FLEAS & BROWN DOG TICKS AND LICE ON PREMISES AND ON DOGS.
- CONTROLS BED BUGS
- CONTROLS FLEAS AND TICKS ON DOGS FOR 14 DAYS
- FOR CONTROL OF PESTS ON LIVESTOCK
- With COUNTRY FRESH FRAGRANCE
- PROVIDES 60-DAY (TWO MONTHS) CONTROL OF FLEAS.
- PROVIDES 60-DAY (TWO MONTHS) CONTROL OF STORED PRODUCT PESTS.
- DILUTE FOR USE ON VEGETABLES, AND FRUIT, AND NUT TREES, ORNAMENTAL TREES AND PESTS ON THE OUTDOOR SURFACES OF BUILDINGS.

## KEEP OUT OF REACH OF CHILDREN CAUTION

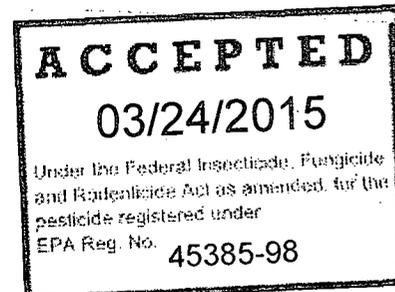
See side [back] panel(s) for additional precautionary statements.  
STOP: Read Label Before Use

<b>Active Ingredient:</b>		
Permethrin (CAS# 52645-53-1)	.....	0.25%
<b>Other Ingredients:</b>	.....	99.75%
Total	.....	100.00%

EPA Reg. No. 45385-98      EPA Est. No.

CTX-Cenol, Inc.  
P.O. Box 472  
Twinsburg, OH 44087

Net Contents: x Fl. Oz. [Pt. Qt. Gal]



**USE ONLY ON DOGS. DO NOT USE ON CATS OR KITTENS.**

**PRECAUTIONARY STATEMENTS**

**Hazards To Humans & Domestic Animals**

**Hazards To Humans:** User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

**Hazards To Domestic Animals:** Do not use on dogs under twelve (12) weeks old. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant, or nursing animals. Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.

**Environmental Hazards**

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

**Physical & Chemical Hazards**

Do not use this product in or on electrical equipment due to the possibility of shock hazard. Do not allow product to freeze.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Not for use on plants being grown for sale or other commercial use or for commercial seed production or for research purposes. Food utensils such as teaspoons and measuring cups should not be used for food after using with insecticides

**SHAKE WELL BEFORE USING.**

**FOR INDOOR RESIDENTIAL USE**

For surface, spot, crack & crevice treatment only. Do not use as a space spray indoors. Ready to use. Affix trigger, pump or other type of sprayer to container for application. Do not transfer to another container.

**SURFACE SPRAYING**

**FOR 60-DAY (TWO MONTHS) CONTROL OF COCKROACHES, WATERBUGS, PALMETTO BUGS, SCORPIONS, MILLIPEDES, CENTIPEDES, SOWBUGS, PILLBUGS, ANTS, SILVERFISH, FIRE BRATS, SPIDERS, CRICKETS, CLOVER MITES, CHEESE MITES, GRANARY WEEVILS, RICE WEEVILS, CONFUSED FLOUR BEETLES, RUST RED FLOUR BEETLES, DRUGSOTRE BEETLES, MEAL WORMS, GRAIN MITES AND CADELLES:** Direct the spray into hiding places, cracks and crevices and behind shelves and drawers. For silverfish, spray bookcases. For ants, spray trails, nests and points of entry. Treat travel luggage against picking up of insects such as bed bugs.

**TO CONTROL CARPET BEETLES:** Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, crevices and infested areas of shelving. Repeat treatment in 1 week if required.

**TO CONTROL BED BUGS:** Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floors. Do not treat pillows or bed linens. Repeat treatment the next day if required. Allow all surfaces to thoroughly dry before remaking bed.

**TO CONTROL FLEAS (NYMPHS AND ADULTS) AND TICKS (ADULTS AND LARVAE):** Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames and entire areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Allow to dry thoroughly before allowing pets to contact treated areas. Do not retreat in less than 60 days.

**TO KILL LICE AND LOUSE EGGS:** Treat only those garments and parts of bedding, including mattresses and furniture that cannot be either laundered or dry-cleaned. Spray in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying then proceed to spray entire area to be treated. Spray from a distance of 8 to 10 inches. Allow all treated articles to dry thoroughly before use.

### LIVESTOCK PESTS

Ready-To-Use: Affix trigger, pump or other type of spray head to container or use a clean sprayer for application.

**ON LIVESTOCK:** To protect cattle (beef and dairy), goats, sheep, hogs and horses from: Horn Flies, Face Flies, House Flies, Mosquitoes and Gnats, apply a light mist sufficient to wet the surface of the hair. For face flies, spray face and head, but do not spray into eyes.

**TO CONTROL STABLE FLIES, HORSE FLIES AND DEER FLIES:** Apply at a rate of 2 ounces per adult animal, sufficient to wet the hair thoroughly. Repeat treatment daily or at intervals necessary to give continued protection.

**TO CONTROL BLOOD SUCKING LICE:** Apply to the infested areas of the animal, using a stiff brush to get the spray to the base of the hair. Repeat every 3 weeks if required.

### FOR POULTRY INSECTS

**TO CONTROL POULTRY LICE:** Spray roosts, walls and nests or cages thoroughly. This should be followed by spraying over the birds with a fine mist.

**TO CONTROL BEDBUGS AND MITES IN POULTRY HOUSES:** Spray crevices of roost poles, cracks in walls and cracks in nests where the bedbugs and mites hide.

### FOR INSECT PESTS ON DOGS

**ON DOGS ONLY TO CONTROL FLEAS, TICKS AND LICE:** Ready To Use. Affix trigger, pump or other type of sprayer to container for application. Do not transfer to another container. Start spraying at the tail, moving the dispenser rapidly and making sure that the animal's entire body is covered, including the legs and underbody. While spraying, fluff the hair so that the spray will penetrate to the skin. Make sure spray wets thoroughly, but do not saturate animal. Avoid contact with genitalia. Repeat application every two weeks, if necessary. **DO NOT USE ON CATS OR KITTENS.**

### FOR USE OUTDOORS

All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- Applications to soil or vegetation, as listed on this label, around structures;
- Applications to lawns, turf and other vegetation, as listed on this label.

**TO HELP CONTROL TICKS IN OUTDOOR ACTIVITY AREAS:** Ready To Use. Affix trigger, pump or other type of sprayer to container for application. Do not transfer to another container. Treat a band of vegetation and leaf litter 6-10 feet wide and adjacent to activity areas, especially where dense vegetation occurs.

### PESTS ON THE OUTDOOR SURFACES OF BUILDINGS:

Ready To Use. To temporarily control House Flies, Mosquitoes, Cluster Flies, Gnats and Flying Moths. For outdoor use only as an aid in reducing annoyance from these insects. Spray pests on outside surfaces of screens, doors, window frames or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, in garages and other places where these insects alight or congregate. Repeat as necessary. Flush sprayer with clean water after each use.

**FOR HOME VEGETABLE GARDENS**

Dilute before using. Use a clean sprayer. Carefully measure and mix 1 fluid ounce of Cenol 0.25% Multipurpose Insecticide and 12 fluid ounces of water (equal to 11 fluid ounces in 1 gallon of water). Spray upper and lower leaf surfaces as directed. Use sufficient spray to obtain full coverage of all foliage, but do not spray to the point of run-off. Apply no more than 13 ounces of dilute mixture per 100 linear feet of row (13 ounces of diluted mixture per 100 square feet). Flush spray with clean water after each use.

VEGETABLES	TARGET PESTS	REMARKS
Asparagus (pre-harvest)	Cutworms, Asparagus beetle	Spray plants as needed to ensure uniform coverage. Do not make more than 4 applications or retreat in less than 10 days. Can be applied up to 3 days prior to harvest.
Asparagus (post-harvest)	Larval stages of asparagus beetle, tarnished plant bugs, lygus bugs and adult Japanese beetles	Treat fern or bush growth after spear harvest when insects are present. Do not apply within 1 day of harvest.
Celery (see below: Leafy Vegetables		
Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Beet armyworm, diamond back moth, imported cabbageworm, cabbage aphid, cabbage looper	Apply every 5 days as needed. Do not apply more than 0.8 pound of active ingredient per acre per season. Do not apply within 1 day of harvest. Do not make more than 10 applications on cabbage or more than 8 applications on broccoli, Brussels sprouts and cauliflower/season.
Corn – see Sweet Corn below.		
CUCURBITS: Balsam pear (bitter melon), Chinese waxgourd (Chinese preserving melon), citrus melon, cucumber, Gherkin, Edible gourds, Melons including hybrids such as cantaloupe, casaba, Crenshaw, honeydew, honey balls, mango melon, muskmelon and Persian melon, Pumpkin, Summer & Winter Squash, Watermelon	Aphids, cabbage loopers, cucumber beetles (adults), cutworms, leafhoppers, leafminers, melon worms, pickleworms, plant bugs and squash bugs	Spray plants as needed to ensure uniform coverage. Do not make more than 8 applications per crop. Can be applied up to the day of harvest. Do not apply more than 1.6 pounds of active ingredient per acre per season. Do not reapply in less than 7 days.
Eggplant	Colorado potato beetles, vegetable leafminers	Spray plants as needed to ensure uniform coverage. Do not make more than 16 applications. Do not apply within 3 days of harvest.
Horseradish	Imported crucifer weevils	Spray as needed. Do not make more than 3 foliar applications. Do not apply within 10 days of harvest. Do not reapply in less than 10 days.
LEAFY VEGETABLES: Amaranth, arugula, celery, lettuce, chervil, corn salad, chrysanthemum (edible-leaved and garland), cress (garden and upland), dandelion, dock endive, fennel, lettuce (head & leaf), orach, parsley, purslane (garden and winter), rhubarb, spinach, Swiss chard	Alfalfa loopers, aphids, beet armyworms, cabbage looper, corn earworms, cutworms, European corn borer, fall armyworms, green cloverworm, southern armyworms, tobacco budworms, vegetable leafminers	Do not reapply in less than 7 days for lettuce, celery and 3 days for spinach and all other crops listed with the leafy vegetables. Do not make more than 7 applications per crop. Can be applied up to 1 day prior to harvest.
Melons – See Cucurbits		

Potatoes	Beat armyworms, Colorado potato beetles, potato beetles, potato leafhoppers, potato aphids, potato tuberworms, cabbage loopers, cutworms, European corn borers, potato psyllids, tarnished plant bugs	Spray plants as needed. Do not make more than 12 applications per season. Can be applied up to 7 days prior to harvest. Do not reapply in less than 10 days.
Pepper, bell	Vegetable leafminers, cabbage loopers, flea beetles, corn earworms, southern armyworms, pepper weevils, European corn borers	Spray plants as needed. Do not make more than 8 applications per season. Can be applied up to 3 days prior to harvest. Do not reapply in less than 7 days.
Sweet Corn	Corn earworms, European corn borer, fall armyworms, southern armyworms	Spray plants when needed. Do not make more than 6 applications per season. Can be applied up to 1 day prior to harvest. Do not reapply in less than 3 days.
Tomatoes: Do not spray on cherry tomatoes and varieties yielding tomatoes less than one inch in diameter.	Beet and southern armyworms, tomato pinworms, tomato fruitworms, hornworms, granulate cutworms, Colorado potato beetles, cabbage loopers	Spray plants when needed for uniform coverage. Do not make more than 6 applications per season. Can be applied up to date of harvest. Do not reapply in less than 5 days.
<b>HOME OWNER GROWN FRUIT AND NUT TREES</b>		
Dilute before using. Use a clean sprayer. Carefully measure and mix 1 fluid-ounce in 12 oz.'s of water (equal to 11 fluid ounces in 1 gallon of water). Apply dilute mixture to trees until foliage is dripping wet. Make sure to spray the undersides of leaves and into dense foliage. Flush spray with clean water after each use.		
<b>TREES</b>	<b>TARGET PESTS</b>	<b>REMARKS</b>
Fruit or Nut Almonds	Navel orange worms, peach twig borers	Apply when insects appear. Do not make more than 2 applications during the period when the outer hull of the almond has started to open. Do not make more than 5 applications per season. Can be applied up to 7 days prior to harvest.
Apples	Plum curculio, red banded leaf rollers, rosy apple aphids, spotted tentiform leaf miners, tarnished plant bugs, white apple leafhoppers, oblique banded leafrollers, green fruitworms, codling moth	Apply when insects appear. Do not reapply in less than 10 days. Do not make more than 3 applications per season and do not retreat for 10 days. Do not apply after petal fall.
Peaches	Lesser peach tree borers, peach twig borers, plum curculios, tarnished plant bugs, green fruitworms, Oriental fruit worms	Apply when insects appear. Do not apply within 7 days of harvest. Do not make more than 8 applications per season. Do not reapply in less than 10 days.
Pears	Pear psyllid, green fruitworms and codling moth	Do not apply more than 3 applications per season. Do not reapply in less than 10 days. Can be applied up to 14 days prior to harvest.

**ORNAMENTAL FLOWER GARDENS**

Ready To Use. Affix trigger, pump or other type of spray head to container or use a clean sprayer for application. For use on roses, dahlias, asters and other ornamentals to kill Japanese Beetles, hit by spray, as well as whiteflies, aphids, exposed thrips, spiders, red mites and leafminers.

Use on plants as a multipurpose spray in small gardens and for spot treatments of incipient insect infestations to prevent spreading in large garden areas. Use on other plants such as African violets, asters, azaleas, begonias, camellias, carnations, chrysanthemums, dahlias, delphiniums, dogwoods, English ivy, euonymus, fuchsia, geraniums, crassula, grape vines, kentia palms, laurels, marigolds, rhododendrons, roses, rubber plants, snapdragons, stocks, wandering Jew and zinnias.

Effective when used as directed against white flies, aphids, spiders and red mites, exposed thrips, lace bugs, Japanese beetles, pavement ants, clover mites and armyworms.

When spraying plants, do not apply closer than 18 inches. Use a sweeping motion. Be cautious about wetting tender foliage, young plants and new growth.

Do not spray plants when temperatures exceed 90°F. Contact insects directly whenever possible. Repeat treatment as infestations occur.

### ORNAMENTAL TREES AROUND THE HOME

Dilute before using.

Use a clean sprayer. Carefully measure and mix 1 fluid ounce of Cenol 0.25% Multipurpose Insecticide and 12 fluid ounces of water (equal to 11 fluid ounces in 1 gallon of water). Using dilute mixture, use sufficient spray to obtain full coverage of all foliage. Add 1 tbsp spreader sticker per gallon.

Avoid heavy wetting. Use to control: pine moths, pine needle miners, pine beetles and needle scales on Pine; budworms on Conifers; oakworms on Oak, fall webworms on Cherry, Elm and Honeysuckle; aphids on Tulip Poplar; citrus blackflies on Non-bearing Citrus; tussock moths on Douglas and Grand Firs; elm leaf beetles and elm spanworms on Elms.

Flush sprayer with clean water after each use. Follow STORAGE and DISPOSAL section for disposal of rinsate.

### KILLS AND REPELS MOSQUITOES AND TICKS FOR CLOTHING AND CAMPING GEAR MOSQUITO NETTING, NETS, TENTS, outsides of SLEEPING BAGS, BACKPACKS, GROUND CLOTHS and LUGGAGE

Use for residual protection and an insect repellent against ticks, chiggers and mosquitoes. Treat clothing and camping equipment and gear as follows:

**SHAKE WELL BEFORE USING.** This product should not be applied to clothing while it is being worn. Under NO circumstances should bare skin or clothing on the body be treated. Do not spray directly on or otherwise allow it to come in contact with skin, face or eyes. This product is to be used as a clothing and gear treatment only. In case of accidental spraying of skin, face or eyes, see FIRST AID below. Make all applications outdoors.

For six-week protection against ticks, chiggers and mosquitoes, select an outdoor area protected from the wind. Spray outer surfaces of clothing only (while not being worn) with a slow sweeping motion to lightly moisten the surface of the fabric, holding it at a distance of 6 to 8 inches. (A complete outfit consists of shirt, trousers and socks.) Treat outside of each item of clothing for a minimum of 30 seconds on each side and allow 2 hours (4 hours under humid conditions) to dry prior to being worn. Pay particular attention to socks, trouser cuffs and shirt cuffs. Treatment should moisten the surface of the fabric enough to cause a slight color change. Use approximately 2 to 3 ounces of this container to treat the outsides of one complete set of clothing (pants and long sleeved shirt). Use remainder on gear. Follow normal laundering procedures weekly. Reapply after six weeks and sixth laundering.

In heavily infested areas, protection from ticks and chiggers will be improved by either wearing the cuffs inside footwear or taping pant cuffs around legs. Protection from mosquitoes can be further enhanced by using a skin-applied repellent to exposed skin surfaces.

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Do not treat inside of sleeping bag. Spray exterior surfaces of tent only. Select a well-ventilated outdoor area protected from wind and lay out gear to be treated. Hold container upright about 6 to 8 inches from surface of the article and spray with a slow sweeping motion to lightly moisten the surface of the fabric. Continue spraying over entire article until the outer surface of the article is moist enough to cause a light color change (darkening). Turn the article over and treat the other side. Hang treated gear and allow to dry for at least 2 hours (4 hours under humid conditions) before using. Do not retreat gear more than once every six weeks.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Storage:** Store this product in its original container in a dry, cool, secured area out of reach of children.

**Pesticide Disposal:** As a responsible environmental practice, where possible, it is recommended that all of the contents of the container be used carefully following label directions and precautions. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Handling:** If Empty: Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling, if available. If Partly Filled: Call your local waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**SPILL:** In case of spill, absorb liquid with absorbent material such as soil or clay, etc. Place absorbed spill in a labeled container and dispose of according to PESTICIDE DISPOSAL directions above.

**WARRANTY STATEMENT:** Our recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, to the extent consistent with applicable law, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. To the extent consistent with applicable law, the buyer must assume all responsibility, including injury or damages resulting from its misuse as such or in combination with other materials.

Product Batch Code No. \_\_\_\_\_